

## A CENSUS OF THE ORCHIDS OF NEW SOUTH WALES, 1937.

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The Census of New South Wales Plants, by J. H. Maiden and Ernest Betche (1916), recorded 177 species of Orchids—an increase of only four since the publication of Moore and Betche's "Handbook of the Flora of N.S.W." in 1893. Recent research has indicated that of these 177, at least four should be deleted from the list. Mr. W. H. Nicholls has demonstrated (*Vict. Nat.*, June, 1936) that no authentic Australian specimens of *Thelymitra longifolia* Forst. can be discovered, and it seems that this species is restricted to New Zealand. Mr. Nicholls has also shown (*Vict. Nat.*, June, 1934) that Fitzgerald's *T. megalyptra* is really conspecific with Lindley's *T. aristata*. Fitzgerald's *Pterostylis striata* is now generally admitted to be *P. alata* Reichb. f.; and the present writer is convinced that *P. cucullata* R.Br. has not yet been recorded in New South Wales. Brown's name has been mistakenly bestowed upon a very different species, *P. falcata* Rogers. Some doubt exists in regard to a number of other species. No one has seen *Diuris dendrobioides* Fitzg., or *Pterostylis clavigera* Fitzg., for over forty years, and as no specimens are available, their validity cannot be tested. Several of the same author's *Prasophyllum* species are also quite unknown to the present generation, as also is his *Anticheirostylis apostasioides*. But of course these may yet be re-discovered, and they should therefore be retained on the list. The possibility of re-discovery is indicated in the fact that since Maiden and Betche's Census was published 45 species and one new genus have been added to the Orchid flora of the State.

Alterations in nomenclature, due either to the application of the international priority rule, the transference of species, or the deletion of genera, have become necessary since the 1916 Census. Two of these—*Dendrobium elongatum* Cunn., instead of *D. gracilicaule* F.v.M., and *Bulbophyllum crassulaefolium* Cunn., instead of *B. Shepherdii* F.v.M., are here published for the first time, on the authority of Dr. R. S. Rogers of Adelaide. In both instances Cunningham's description preceded Mueller's by many years. Dr. Rogers thinks Mueller may have suppressed *D. elongatum* to avoid confusion with a non-Australian plant of Lindley's; but the latter's *D. elongatum* is merely a synonym for his *D. cymbidioides*, and has no standing. With regard to *Bulbophyllum crassulaefolium*, Dr. Rogers writes: "Cunningham did not see the plant in flower, and apparently thought it might prove to be a *Dendrobium*. His coloured drawing of it is preserved at Kew Gardens; the habit of the plant agrees perfectly with Mueller's *B. Shepherdii*, and the locality (Blue Mountains) is identical." This little *Bulbophyllum* is very common in many parts of the State.

Deleting the four species cited above from Maiden and Betche's Census, and adding 45 to the remaining 173, we now have 218 Orchids on record for this State. In the Census list below I have only given references to descriptions, etc., in the

case of those which are not listed in the 1916 Census. In all other cases Maiden and Betcher's work should be consulted. I have used the following abbreviations:

*Fragm.*—Mueller's *Fragmenta Phytographiae Australiae*.

*Q. Fl.*—F. M. Bailey's *Queensland Flora* (1902).

*S.A. Orch.*—Dr. R. S. Rogers' *South Australian Orchids*.

*Orch. N.S.W.*—Rupp's *Guide to the Orchids of N.S.W.*

*Bot. Reg.*—Curtis's *Botanical Register* (London).

\* Denotes plants recorded since the 1916 Census.

† Denotes an alteration in nomenclature.

LIPARIS Rich.

*reflexa* Lindl.

*coelogymoides* F.v.M.

\**habenaria* F.v.M., *Fragm.*, iv, 131.  
See *Vict. Nat.*, May, 1935.

\**Simmondsii* Bail., *Q. Fl.*, p. 1521, also  
*Botany Bulletin*, Q'land. Dept. of  
Agriculture, xix, 1917, p. 12 (J. F.  
Bailey and C. T. White); see also  
*Aust. Orch. Review*, March, 1937.

OBERONIA Lindl.

*iridifolia* Lindl.

*Titania* Lindl.

DENDROBIUM Swz.

*speciosum* Sm.

var. *Hillii* F.v.M.

\*var. *gracillimum* Rupp, *PROC. LINN.*  
*Soc. N.S.W.*, liv, 5, 1929.

\**Kestevenii* Rupp, *PROC. LINN. SOC.*  
*N.S.W.*, lvi, 2, 1931; *Q. Nat.*, March,  
1935.

*falcorostrum* Fitzg.

*tetragonum* Cunn.

*aemulum* R.Br.

*Kingianum* Bidw.

\*var. *Silcockii* Bail., *Q. Fl.*, p. 1528.

†*elongatum* Cunn., *Bot. Reg.*, 1839.  
(*D. gracilicaule* F.v.M., see above.)

*monophyllum* F.v.M.

\**Schneiderae* Bail., *Q. Fl.*, p. 1531.

*cucumerinum* Macleay.

*pugioniforme* Cunn.

*linguiforme* Swz.

*teretifolium* R.Br. See *PROC. LINN.*  
*Soc. N.S.W.*, lx, 3-4, 1935.

var. *Fairfaxii* Fitzg. and F.v.M.

*striolatum* Reichb. f.

*Beckleri* F.v.M.

\**tenuissimum* Rupp, *PROC. LINN. SOC.*  
*N.S.W.*, lii, 4, 1927.

*Mortii* F.v.M.

BULBOPHYLLUM Thou.

†*crassulaefolium* Cunn., *Bot. Reg.*, 1839,  
*Misc.*, p. 33. (*B. Shepherdii* F.v.M.  
See above.)

†*bracteatum* Bail. (*Adelopetatum brac-*  
*teatum* Fitzg. See *Q. Fl.*, p. 1539.  
It is generally recognized now that  
Bailey's treatment of this Orchid  
is correct.)

*aurantiacum* F.v.M.

*exiguum* F.v.M.

*minutissimum* F.v.M.

*Elisae* F.v.M.

\**Weinthalii* Rogers, *Trans. Roy. Soc.*  
*S. Austr.*, lvii, 1933.

TAENIOPHYLLUM Blume.

*Muelleri* Lindl.

SARCOCHILUS R.Br.

*divitiflorus* F.v.M.

*falcatus* R.Br.

var. *montanus* Fitzg.

\**Weinthalii* Bail., *Q'land Agricultural*  
*Journal*, xiii (1903), 346, and  
xxviii, Part 6 (June, 1912), 448.

\**Hartmannii* F.v.M., *Fragm.*, viii, 248.  
See *Abstract PROC. LINN. SOC.*  
*N.S.W.*, No. 482, Aug., 1935.

*Fitzgeraldii* F.v.M.

*olivaceus* Lindl.

\**spathulatus* Rogers, *Trans. Roy. Soc.*  
*S. Austr.*, li, 1927.

\**dilatatus* F.v.M., *Fragm.*, i, 191. See  
also Rogers, loc. cit.

*parviflorus* Lindl.

*Ceciliae* F.v.M.

*Hillii* F.v.M.

*eriochilus* Fitzg.

CLEISOSTOMA Blume.

*tridentatum* Lindl.

*Beckleri* F.v.M.

ORNITHOCHILUS Wall.

*Hillii* Benth.

GEODORUM Jacks.

*pictum* Lindl.

DIPODIUM R.Br.

*punctatum* R.Br.

\**Hamiltonianum* (Bail.) Cheel, *PROC.*  
*LINN. Soc. N.S.W.*, lviii, 1-2, 1923.

CYMBIDIUM Swz.

*canaliculatum* R.Br.

\**forma aureolum* Rupp, *PROC. LINN.*  
*Soc. N.S.W.*, lix, 1-2, 1934.

\**iridifolium* Cunn., *Bot. Reg.*, 1839,  
*Misc.* 34. (*C. albuciformum* F.v.M.  
See Rupp, loc. cit.)

*suave* R.Br.

PHAIUS Lour.

*grandifolius* Lour. (Now almost extinct  
in N.S.W.)

CALANTHE R.Br.

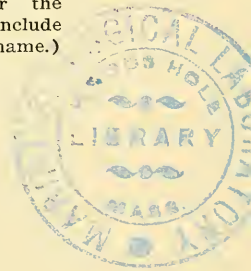
*veratrifolia* R.Br.

GALEOLA Lour.

*cassythoides* Reichb. f.

*Ledgeriana* F.v.M.

- EPIPOGUM Gmel.  
*nutans* Lindl.
- GASTRODIA R.Br.  
*sesamoides* R.Br.
- \*CRYPTANTHEMIS Rupp, PROC. LINN. SOC. N.S.W., lvii, 1-2, 1932.  
 \**Slateri* Rupp, loc. cit. and lix, 3-4, 1934.
- CHEIROSTYLIS Blume.  
*grandiflora* Blume.
- SPIRANTHES Rich.  
*sinensis* (Pers.) Ames. (*S. australis* Lindl.)
- CALOCHILUS R.Br.  
*campestris* R.Br. (Doubt has been expressed in regard to this species. It is certain that in N.S.W. it was long confused with the species now known as *C. cupreus* Rogers. But Brown recorded it both in N.S.W. and Queensland. I believe it is much less common than was formerly supposed: but I have collected it near Bullahdelah, and have seen specimens from various districts.)  
 \**grandiflorus* Rupp, *Vict. Nat.*, Feb., 1934, and Abstract, PROC. LINN. SOC. N.S.W., Aug., 1935.  
 \**cupreus* Rogers, *Trans. Roy. Soc. S. Austr.*, xlii, 1918.  
*Robertsonii* Benth.  
*paludosus* R.Br.
- THELYMITRA Forst.  
*irioides* Swz.  
*media* R.Br.  
*circumsepta* Fitzg.  
*aristata* Lindl. (For the inclusion of Fitzg.'s *T. megalyptra* in this species see Nicholls, *Vict. Nat.*, Oct., 1934, and for the association of *T. aristata* and *Dendrobium Kingianum*, see Rupp, *Vict. Nat.*, Nov., 1934.)  
 \**pauciflora*, R.Br., *Prodromus*, p. 314.  
*nuda* R.Br.  
 \**chasmogama* Rogers, *Trans. Roy. Soc. S. Austr.*, li, 1927. See also PROC. LINN. SOC. N.S.W., lx, 3-4, 1935.  
*carnea* R.Br.  
*Elizabethae* F.v.M. See Rogers, *Trans. Roy. Soc. S. Austr.*, li, 1927.  
*venosa* R.Br.
- DIURIS Sm.  
*alba* R.Br.  
 †*punctata* Sm. (*D. elongata* R.Br.)  
*cuneata* Fitzg.  
*spathulata* Fitzg.  
 \**venosa* Rupp, PROC. LINN. SOC. N.S.W., li, 3, 1926, and liii, 4, 1928.  
*dendrobioides* Fitzg.  
*secundiflora* Fitzg.  
*tricolor* Fitzg.  
*Sheaffiana* Fitzg.  
*maculata* Sm.
- aequalis* F.v.M.  
*bracteata* Fitzg.  
*platichilus* Fitzg.  
*aurea* Sm.  
 \**palachila* Rogers, *S. Austr. Orchids*, p. 33.  
 \**brevifolia* Rogers, *Trans. Roy. Soc. S. Austr.*, xlvi, 1922.  
*sulphurea* R.Br.  
*abbreviata* F.v.M.  
*pedunculata* R.Br.  
*pallens* Benth.
- ORTHOCERAS R.Br.  
*strictum* R.Br.
- CRYPTOSTYLIS R.Br.  
 †*subulata* Reichb. f. (*C. longifolia* R.Br.)  
*erecta* R.Br.  
*leptochila* F.v.M.
- PRASOPHYLLUM R.Br.  
*australe* R.Br.  
*flavum* R.Br.  
*elatum* R.Br.  
*brevilabre* Hook.  
*patens* R.Br.  
 \**Rogersii* Rupp, PROC. LINN. SOC. N.S.W., liii, 4, 1928.  
 \**odoratum* Rogers, *S. Austr. Orch.*, p. 15.  
 \**gracile* Rogers, loc. cit., p. 14.  
 \**Frenchii* F.v.M. See Pescott, *Orchids of Victoria*, p. 31.  
 \**Suttonii* Rogers and Rees. See *Vict. Nat.*, July, 1933; but the Barrington Tops record there given is a mistake.  
*fuscum* R.Br. (Mr. W. H. Nicholls has recently reviewed this species and found it to include more than one. But his treatment of the group has not yet been applied to the N.S.W. forms. Maiden and Betche recognized vars. *alpinum* and *grandiflorum*, but for the present it may be better to include all forms under the specific name.)  
*striatum* R.Br.  
*Baueri* Poir.  
*Deaneanum* Fitzg.  
*longisepalum* Fitzg.  
*nigricans* R.Br.  
*transversum* Fitzg.  
*ansatum* Fitzg.  
*laminatum* Fitzg.  
*rufum* R.Br.  
*densum* Fitzg.  
*viride* Fitzg.  
*filiforme* Fitzg.  
 †*Archeri* Hook. (*P. intricatum* Stuart. See Nicholls, *Vict. Nat.*, Oct., 1931.)  
 \**Morrisii* Nicholls, loc. cit.  
 \**Hopsonii* Rupp, PROC. LINN. SOC. N.S.W., liii, 4, 1928.  
*Woolfsii* F.v.M.



- reflexum* Fitzg.  
*eriochilum* Fitzg.  
*fimbriatum* R.Br.  
 \**acuminatum* Rogers, *Trans. Roy. Soc. S. Austr.*, li, 1927. See also *Orch. N.S.W.*, p. 87.  
 \**Ruppii* Rogers, loc. cit.; also *Orch. N.S.W.*, p. 88.  
 \**Nublingii* Rogers, loc. cit.; also *Orch. N.S.W.*, p. 89.
- ANTICHEIROSTYLIS Fitzg.  
*apostasioides* Fitzg.
- MICROTIS R.Br.  
 \**magnadenia* Rogers, *Trans. Roy. Soc. S. Austr.*, liv, 1930.  
*porrifolia* Spreng.  
*parviflora* R.Br.  
 \**oblonga* Rogers, *Trans. Roy. Soc. S. Austr.*, xlvii, 1923.
- CORYSANTHES R.Br.  
*pruinosa* Cunn.  
*fimbriata* R.Br.  
 \**diemenica* Lindl. (See *PROC. LINN. SOC. N.S.W.*, liii, 2, 1928, p. 81.)  
 \**undulata* Cunn. (See Rogers, *Trans. Roy. Soc. S. Austr.*, li, 1927, also refer to *PROC. LINN. SOC. N.S.W.*, loc. cit., p. 88.)  
*bicalcarata* R.Br.  
*unguiculata* R.Br.
- PTEROSTYLIS R.Br.  
*ophioglossa* R.Br.  
 \*var. *collina* Rupp, *PROC. LINN. SOC. N.S.W.*, liv, 5, 1929.  
*concinna* R.Br.  
*acuminata* R.Br.  
*Baptistii* Fitzg.  
*curta* R.Br.  
*nutans* R.Br.  
 var. *hispidula* Fitzg.  
*clavigera* Fitzg.  
*nana* R.Br.  
*pedoglossa* Fitzg.  
*pedunculata* R.Br.
- \**furcillata* Rupp, *PROC. LINN. SOC. N.S.W.*, lv, 4, 1930.  
 \**furcata* Lindl. (See Rogers, *Trans. Roy. Soc. Vict.*, xxviii [new series], 1, 195.)  
 \**alpina* Rogers, loc. cit.  
 \**falcata* Rogers, loc. cit.  
 \**pulchella* Messmer, *PROC. LINN. SOC. N.S.W.*, lviii, 5-6, 1933.  
*grandiflora* R.Br.  
*truncata* Fitzg.  
*reflexa* R.Br.
- \**revoluta* R.Br. (See *PROC. LINN. SOC. N.S.W.*, liii, 5, 1928, p. 553.)  
*coccinea* Fitzg.
- †*alata* Reichb. f. (*P. praecox* Lindl., *P. striata* Fitzg.)  
*obtusa* R.Br.  
*parviflora* R.Br. (Maiden and Betche record var. *aphylla* Ewart and White. *P. parviflora* is so variable a species, and, in N.S.W. at least, the appearance of leaves is often so much later than the flowers, that the validity of var. *aphylla* seems doubtful in this State.)
- mutica* R.Br.  
*cynocephala* Fitzg.  
*rufa* R.Br. (The group of which this species is representative calls for review, as there is considerable confusion of forms.)
- \**pusilla* Rogers, *Trans. Roy. Soc. S. Austr.*, xlii, 1918.  
 \*var. *prominens* Rupp., *PROC. LINN. SOC. N.S.W.*, lvi, 2, 1931.  
 †*Mitchellii* Lindl. (*P. rufa* var. *Mitchellii*.)  
 †*squamata* R.Br. (*P. rufa* var. *squamata*.)  
*Woolfsii* Fitzg.  
*Daintreyana* F.v.M.  
*longifolia* R.Br.  
*barbata* Lindl.
- CALEANA R.Br.  
*major* R.Br.  
*minor* R.Br.  
 \**Nublingii* Nicholls, *Vict. Nat.*, May, 1931.
- †*SPICULAEA* Lindl. (*Drakaea* Lindl.)  
*irritabilis* Reichb. f.  
*Huntiana* F.v.M.
- ACIANTHUS R.Br.  
*caudatus* R.Br.  
*formicatus* R.Br.  
*exsertus* R.Br.  
 †*reniformis* R.Br. (*Cyrtostylis reniformis* R.Br.)
- ERIOCHILUS R.Br.  
 †*cucullatus* Reichb. f. (*E. autumnalis* R.Br.)
- LYPERANTHUS R.Br.  
*ellipticus* R.Br.  
*suaveolens* R.Br.  
*nigricans* R.Br.
- †*BURNETTIA* Lindl. (*Lyperanthus*, partly.)  
 †*cuneata* Lindl. (*L. Burnettii* F.v.M.)
- CHILOGLOTTIS R.Br.  
 †*reflexa* (Lab.) Cheel. (*C. diphylla* R.Br.)  
*trapeziformis* Fitzg.  
*formicifera* Fitzg.  
*trilabra* Fitzg.  
*Gunnii* Lindl.
- ADENOCHEILUS Hook.  
*Nortonii* Fitzg.
- CALADENIA R.Br.  
*filamentosa* R.Br.  
*Patersonii* R.Br.  
*dilatata* R.Br.  
 \*var. *concinna* Rupp, *PROC. LINN. SOC. N.S.W.*, liii, 5, 1928.  
*arenaria* Fitzg.  
*concolor* Fitzg.



- clavigera* Cunn.  
*tesselata* Fitzg.  
 \**angustata* Lindl. (See Rupp, Proc.  
 Linn. Soc. N.S.W., lvi, 5, 1931.)  
 \**alpina* Rogers, *Trans. Roy. Soc. S.*  
*Austr.*, li, 1927.  
*cucullata* Fitzg.  
*testacea* R.Br.  
*carnea* R.Br.  
 \*var. *gigantea* Rogers, *Trans. Roy.*  
*Soc. S. Austr.*, li, 1927.
- alba* R.Br.  
*latifolia* R.Br.  
*dimorpha* Fitzg.  
*congesta* R.Br.  
 \**tutelata* Rogers, *S.A. Orch.*, p. 30.  
*caerulea* R.Br.  
*deformis* R.Br.  
 GLOSSODIA R.Br.  
*major* R.Br.  
*minor* R.Br.
-